

ABSTRACT OF THE DISCLOSURE

The invention relates to a transfer system (1) for items conveyed (3) piece by piece between a first conveyor unit (4; 11) and at least one other conveyor unit (5, 6) extending transversely or at an angle thereto. The conveyed items (3) are fed on a substantially horizontal conveyor plane (21) of a corresponding conveyor system (2). The transfer system (1) has a brake mechanism (35) which can be raised above and lowered below the conveyor plane (21) so that it can be selectively placed in and out of friction contact with the bottom face (36) of the conveyed item (3). It also has a lifting and conveying mechanism (25), the conveyor elements (27, 28) of which can be raised and lowered below the conveyor plane (21) so that the conveyed item (3) can be picked up from the first conveyor unit (4; 11) and transferred onto one of the other conveyor units (5, 6) without jamming. A first positioning mechanism (44) for the raisable and lowerable brake mechanism (35) and a second positioning mechanism (45) for raising and lowering the lifting and conveying mechanism (25) are mechanically coupled in displacement and are linked to one another by a common first drive system (46) only.

(Fig. 1)

List of Reference Numbers

1	Transfer system	21	Conveyor plane
2	Conveyor system	22	Standing plane
3	Conveyed item	23	Sub- or support frame
4	Conveyor unit	24	Conveyor unit
5	Conveyor unit	25	Lifting and conveying mechanism
6	Conveyor unit	26	Conveyor plane
7	Conveyor element	27	Conveyor element
8	Conveyor element	28	Conveyor element
9	Arrow	29	Bearing frame
10	Peripheral region	30	Conveyor roller
11	Conveyor unit	31	Conveyor roller
12	Conveyor element	32	Rotation axis
13	Conveyor element	33	Rotation axis
14	Conveyor belt	34	Arrow
15	Conveyor belt	35	Brake mechanism
16	Return pulley	36	Bottom face
17	Return pulley	37	Brake element
18	Distance	38	Brake element
19	Rotation axis	39	Brake bar
20	Rotation axis	40	Brake bar

41	Width	61	Pivot bearing
42	Length	62	Bearing shaft
43	Distance	63	Base frame
44	Positioning mechanism	64	End
45	Positioning mechanism	65	Articulated link
46	Drive system	66	Pivot plane
47	Geared motor	67	Angle
48	Electric motor	68	Length
49	Brake hold mechanism	69	Length
50	Gear system	70	Drive arm
51	Drive system	71	Swing lever
52	Geared motor	72	Connecting drive
53	Electric motor	73	Coupling rod
54	Belt drive	74	Articulated link
55	Crank drive	75	Crank wheel
56	Positioning arm	76	Articulated link
57	Positioning arm	77	Distance
58	Pivot axis	78	Motion-transmitting element
59	End	79	Motion-transmitting element
60	Articulated link	80	Bearing mechanism

81	Bearing mechanism
82	Bearing element
83	Support roller
84	Initial or non-operating position
85	Initial or non-operating position
86	Active position
87	Stop element
88	Active position
89	Bottom dead centre
90	Top dead centre
91	Bottom dead centre
92	Sensor
93	Sensor
94	Arrow
95	Conveyor track
96	Conveyor track
97	Stop mechanism
98	Stop element